## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (previously presented) A color printer for printing to a photosensitive medium comprising:

a first light source for generating a first color beam;
a first modulator for modulating said first color beam;
a second light source for generating a second a color beam;
a second modulator for modulating said second color beam;
a third light source for generating a third color beam;
a third modulator for modulating said third color beam;
at least a fourth light source for generating a fourth color

beam;

beam;

a fourth modulator for modulating at least said fourth color

wherein a polarization of said fourth modulated beam is orthogonal to a polarization of said third modulated beam; and an optical system for combining and imaging said modulated beams onto said photosensitive medium.

- 2. (original) A color printer as in claim 1 wherein said photosensitive medium is a motion picture film having at least four sensitive layers.
- 3. (original) A color printer as in claim 1 wherein said photosensitive medium is a motion picture negative film having at least four sensitive layers.
- 4. (original) A color printer as in claim 1 wherein said photosensitive medium is a motion picture print film having at least four sensitive layers.

- (original) A color printer as in claim 1 wherein said photosensitive medium is a motion picture reversal film having at least four sensitive layers.
- 6. (original) A color printer as in claim 1 wherein said photosensitive medium is a photographic film having at least four sensitive layers.
- (original) A color printer as in claim 1 wherein said photosensitive medium is a photographic negative film having at least four sensitive layers.
- 8. (previously presented) A color printer as in claim 1 wherein said photosensitive medium is a photographic print film having at least four sensitive layers.
- 9. (previously presented) A color printer as in claim 1 wherein said photosensitive medium is a photographic reversal film having at least four sensitive layers.
- 10. (original) A color printer as in claim 1 wherein said photosensitive medium is a photographic paper having at least four sensitive layers.
- 11. (currently amended) A color printer as in claim 1 wherein said modulators are reflective liquid crystal diodes devices (LCDs).
- 12. (currently amended) A color printer as in claim 1 wherein said modulators are transmissive liquid crystal diodes devices (LCDs).
- 13. (original) A color printer as in claim 1 wherein said modulators are digital micromirror devices.

- 14. (original) A color printer as in claim 1 wherein said modulators are gated light valves.
- 15. (original) A color printer as in claim 1 wherein said modulators are acousto-optic.
- 16. (previously presented) A color printer as in claim 1 wherein said modulators are comprised of electro-optic modulators.
- 17. (original) A color printer as in claim 1 wherein said light sources are selected from a group comprised of infra-red, red, green, yellow-green, blue-green, blue, and ultra-violet lasers.
- 18. (original) A color printer as in claim 1 wherein said light sources are selected from a group comprised of infra-red LED array, red LED array, green LED array, blue-green LED array, yellow-green LED array, a blue LED array, and an ultra-violet LED array.
- 19. (previously presented) A color printer as in claim 1 wherein each of said light sources are comprised of an array of light sources, wherein light sources in each array are selected from a group comprised of infrared LED, red LED, green LED, blue-green LED, yellow-green LED, blue LED, and ultra-violet LED.
- 20. (original) A color printer as in claim 1 wherein said light sources are selected from a group comprised of laser, LED array, filtered xenon, and filtered tungsten.
  - 21. (canceled)
  - 22. (canceled)
  - 23. (canceled)

24. (previously presented) A method of printing to a photosensitive medium comprising:

generating a first color beam;
modulating said first color beam;
generating a second color beam;
modulating said second color beam;
generating a third color beam;
modulating said third color beam;
generating at least a fourth color beam;
modulating at least said fourth color beam;
wherein said third modulated color beam and said fourth
are orthogonally polarized; and

modulated color beam are orthogonally polarized; and

combining and imaging said modulated beams onto said

photosensitive medium.

- 25. (previously presented) A method as in claim 24 wherein said photosensitive medium is a motion picture film having at least four sensitive layers.
- 26. (previously presented) A method as in claim 24 wherein said photosensitive medium is a motion picture negative film having at least four sensitive layers.
- 27. (previously presented) A method as in claim 24 wherein said photosensitive medium is a motion picture print film having at least four sensitive layers.
- 28. (previously presented) A method as in claim 24 wherein said photosensitive medium is a motion picture reversal film having at least four sensitive layers.
- 29. (previously presented) A method as in claim 24 wherein said photosensitive medium is a photographic film having at least four sensitive layers.

- 30. (previously presented) A method as in claim 24 wherein said photosensitive medium is a photographic negative film having at least four sensitive layers.
- 31. (previously presented) A method as in claim 24 wherein said photosensitive photographic print film having at least four sensitive layers.
- 32. (previously presented) A method as in claim 24 wherein said photosensitive photographic reversal film having at least four sensitive layers.
- 33. (previously presented) A method as in claim 24 wherein said photosensitive medium is a photographic paper having at least four sensitive layers.
- 34. (previously presented) A method as in claim 24 wherein said modulators are reflective LCDs.
- 35. (previously presented) A method as in claim 24 wherein said modulators are transmissive LCDs.
- 36. (previously presented) A method as in claim 24 wherein said modulators are digital micromirror devices.
- 37. (previously presented) A method as in claim 24 wherein said modulators are gated light valves.
- 38. (previously presented) A method as in claim 24 wherein said modulators are acousto-optic.
- 39. (previously presented) A method as in claim 24 wherein said modulators are electro-optic modulators, wherein combined light beams from said modulators are deflected by polygon scanners.

- 40. (previously presented) A method as in claim 24 wherein at least one light source is selected from a group comprised of infra-red, red, green, yellow-green, blue-green, blue, and ultra-violet lasers.
- 41. (previously presented) A method as in claim 24 wherein said light sources are selected from a group comprised of infra-red LED array, red LED array, green LED array, blue-green LED array, yellow-green LED array, blue LED array, and an ultra-violet LED array.
- 42. (previously presented) A method as in claim 24 wherein each of said light sources are comprised of an array of infra-red LEDs or red LEDs or green LEDs or blue-green LEDs or yellow-green LEDs or blue LEDs or ultra-violet LEDs.
- 43. (previously presented) A method as in claim 24 wherein said light sources are selected from a group comprised of laser, LED array, filtered xenon, and filtered tungsten.
- 44. (previously presented) A color printer for printing to a photosensitive medium comprising:

a first light source for generating a first color beam;

a first modulator means for modulating said first color

beam;

a second light source for generating a second a color beam;

a second modulator means for modulating said second

color beam;

a third light source for generating a third color beam;

a third modulator means for modulating said third color

beam;

at least a fourth light source for generating a fourth color

beam;

a fourth modulator means for modulating at least said

fourth color beam;

wherein said third modulated color beam and said fourth modulated color beam are orthogonally polarized; and an optical system for combining and imaging said modulated beams onto said photosensitive medium.

- 45. (original) A color printer as in claim 44 wherein said photosensitive medium is a motion picture film having at least four sensitive layers.
- 46. (original) A color printer as in claim 44 wherein said photosensitive medium is a motion picture negative film having at least four sensitive layers.
- 47. (original) A color printer as in claim 44 wherein said photosensitive medium is a motion picture print film having at least four sensitive layers.
- 48. (original) A color printer as in claim 44 wherein said photosensitive medium is a motion picture reversal film having at least four sensitive layers.
- 49. (original) A color printer as in claim 44 wherein said photosensitive medium is a photographic film having at least four sensitive layers.
- 50. (original) A color printer as in claim 44 wherein said photosensitive medium is a photographic negative film having at least four sensitive layers.
- 51. (original) A color printer as in claim 44 wherein said photosensitive photographic print film having at least four sensitive layers.
- 52. (original) A color printer as in claim 44 wherein said photosensitive photographic reversal film having at least four sensitive layers.

- 53. (original) A color printer as in claim 44 wherein said photosensitive medium is a photographic paper having at least four sensitive layers.
- 54. (original) A color printer as in claim 44 wherein said modulators are reflective LCDs.
- 55. (original) A color printer as in claim 44 wherein said modulators are transmissive LCDs.
- 56. (original) A color printer as in claim 44 wherein said modulators are digital micromirror devices.
- 57. (original) A color printer as in claim 44 wherein said modulators are gated light valves.
- 58. (original) A color printer as in claim 44 wherein said modulators are acousto-optic.
- 59. (original) A color printer as in claim 44 wherein said modulators are electro-optic modulators combined with polygon scanners.
- 60. (original) A color printer as in claim 44 wherein said light sources are selected from a group comprised of infra-red, red, green, yellow-green, blue-green, blue, and ultra-violet lasers.
- 61. (original) A color printer as in claim 44 wherein said light sources are selected from a group comprised of infra-red LED array, red LED array, green LED array, blue-green LED array, yellow-green LED array, blue LED array, and an ultra-violet LED array.
- 62. (previously presented) A color printer as in claim 44 wherein each of said light sources are comprised of an array of infra-red LEDs or

red LEDs or green LEDs or blue-green LEDs or yellow-green LEDs or blue LEDs or ultra-violet LEDs.

- 63. (original) A color printer as in claim 44 wherein said light sources are selected from a group comprised of laser, LED array, filtered xenon, and filtered tungsten.
- 64. (previously presented) A color printer for printing to a photosensitive medium comprising:

a plurality first light sources for generating a first color

beam;

a plurality second light sources for generating a second a

color beam;

a plurality third light sources for generating a third color

beam;

at least a fourth light source for generating a fourth color

beam;

wherein said first, second, third, and fourth light sources are arranged as an array of light sources;

wherein a number of light sources for each color is inversely proportional to a film sensitivity;

a modulator for modulating said first, second, third, and fourth color beams; and

an optical system for combining and imaging said modulated beams onto said photosensitive medium.

- 65. (original) A color printer as in claim 64 wherein said photosensitive medium is a motion picture film having at least four sensitive layers.
- 66. (original) A color printer as in claim 64 wherein said photosensitive medium is a motion picture negative film having at least four sensitive layers.

- 67. (original) A color printer as in claim 64 wherein said photosensitive medium is a motion picture print film having at least four sensitive layers.
- 68. (original) A color printer as in claim 64 wherein said photosensitive medium is a motion picture reversal film having at least four sensitive layers.
- 69. (original) A color printer as in claim 64 wherein said photosensitive medium is a photographic film having at least four sensitive layers.
- 70. (original) A color printer as in claim 64 wherein said photosensitive medium is a photographic negative film having at least four sensitive layers.
- 71. (previously presented) A color printer as in claim 64 wherein said photosensitive medium is a photographic print film having at least four sensitive layers.
- 72. (previously presented) A color printer as in claim 64 wherein said photosensitive medium is a photographic reversal film having at least four sensitive layers.
- 73. (original) A color printer as in claim 64 wherein said photosensitive medium is a photographic paper having at least four sensitive layers.
- 74. (original) A color printer as in claim 64 wherein said modulator is a reflective LCD.
- 75. (original) A color printer as in claim 64 wherein said modulator is a transmissive LCD.

- 76. (original) A color printer as in claim 64 wherein said modulator is a digital micromirror device.
- 77. (original) A color printer as in claim 64 wherein said modulator is a gated light valve.
- 78. (original) A color printer as in claim 64 wherein said modulator is an acousto-optic.
- 79. (original) A color printer as in claim 64 wherein said modulator is an electro-optic modulator.
- 80. (original) A color printer as in claim 64 wherein said light sources are selected from a group comprised of infra-red, red, green, yellow-green, blue-green, blue and ultra-violet lasers.
- 81. (original) A color printer as in claim 64 wherein said light sources are selected from a group comprised of infra-red LED array, red LED array, green LED array, blue-green LED array, yellow-green LED array, a blue LED array, and an ultra-violet LED array.
- 82. (previously presented) A color printer as in claim 64 wherein at least one of said light sources is selected from a group comprised of infra-red LED, red LED, green LED, blue-green LED, yellow-green LED, a blue, and an ultra-violet LED.
- 83. (original) A color printer as in claim 64 wherein said light sources are selected from a group comprised of laser, LED array, filtered xenon, and filtered tungsten.
- 84. (original) A color printer as in claim 64 wherein said optical system includes at least one raster scanning device selected from a group comprising:

a polygon, a hologon, or a galvanometer.

## Claims 85-110 (canceled)

111. (previously presented) A color printer as in claim 1 wherein said optical system comprises an x-cube.